

Laser Ion Source for Isobaric Heavy Ion Collider Experiment

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Heavy-ion collider experiment in isobaric system is under investigation at Relativistic Heavy Ion Collider (RHIC). The laser ion source for RHIC-EBIS (LION) is required to provide charge state 1+ ions. Since a natural abundance of particular isotope is low, an isotope enriched material is needed as a target. To investigate the minimum target consumption condition and injector performance, pre-experimental study is being performed using neutrally found materials.